

**HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CORROSION CONTROL TEST STATION
FIELD DATA SURVEY FORM**

Location: 21+50 Date Surveyed: 06/05/2007
W of O. Stockbridge & Oldfield Surveyed by: AS/MJ
 T/S #: 12 Contract #: 44-3327
 T/S Type: ST w/Anode Pipe Size: 36"
 Was the T/S located? YES / NO Yes

TEST STATION CONDITION

Test Box:	Filled with water
Terminal Board:	Good
Wires:	Good
Other:	

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #8 AWG	Red	-1.397	-1.747	-0.324	-0.628	16.0
2.						
3. #10 AWG	Black	-1.373	-1.377	-0.328	-0.257	
4. #10 AWG	Green	-1.090	-1.104			
5.						
6. #10 AWG	Black	-1.375	-1.382	-0.324	-0.258	
7.						
8.						

P/Cu-CuSO₄ = Pipe to Copper-Copper Sulfate Reference Electrode
 P/Zn = Pipe to Zinc Reference Electrode
 "On" = Reading with Anode(s) connected
 "Off" = Reading with Anode(s) disconnected
 Anode = Current output Anode(s)

TESTING THE EFFECTIVENESS OF INSULATING JOINTS

Groundbed:			
Connected to (B/W):			
	Current (A)	Voltage (V)	Resistance (ohms)
ON:			
OFF:			
DELTA:			

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)	$K = \frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$	Between Terminals	Resistance (ohms)
INITIAL:					
FINAL:					
DELTA:					
			Direction:		

REPAIRS MADE

Test Box:	
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	



Figure 143 – Location of Test Station 12



Figure 144 – Test Station 12 close up